

HFP SERIES

ON&OFF GRID HYBRID SOLAR INVERTER

- Pure sine wave
- WiFi
- Two-way energy storage design
- Configurable working mode
- Support working without battery
- RS485

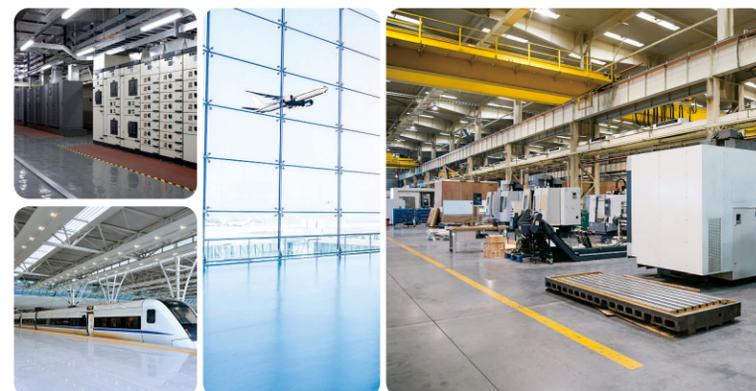


Features

- Adopting high-frequency design, high power density, small size, and high overall efficiency;
- Bidirectional energy storage design, which can achieve bidirectional flow control of electrical energy, and both photovoltaic and mains electricity can be charged to the battery;
- Ultra wide MPPT range, with a minimum of 40Vdc(24V models) / 80Vdc (48V models);
- Capable of setting working modes (grid connected mode, off grid mode, hybrid mode);
- Equipped with grid connected current setting function;
- Equipped with output priority setting function;
- Equipped with charging priority setting function;
- Equipped with lithium battery BMS communication function;
- Support battery-less operation mode.

Product Display

- Household
- Industrial and commercial energy storage
- Airport/high-speed rail station
- Thermal power station/nuclear power station
- Agricultural Irrigation
- Farm use



System Application Diagram



Technical Parameters

Model: HFP	33224	43224	63248	83248	103248	123248
PV Input						
Max PV Input Power	5000W		7000W	4500W*2	6000W*2	6000W*2
MPPT Tracking Voltage Range	40Vdc-450Vdc		80Vdc-450Vdc			
Rated Voltage	360Vdc					
Max PV Input Voltage voc (at the lowest temperature)	500Vdc					
Max PV Input Current	18A	27A	18A*2	22A*2	27A*2	
MPPT Tracking Channels(Input Routed)	1 Routed			2 Routed		
Battery & Charging						
Battery Type	Lead-acid Battery/Lithium Battery					
Rated Battery Voltage	24Vdc			48Vdc		
Battery voltage Range	21~30Vdc (default)			42~60Vdc (default)		
Max PV Charging Current	120A	150A	120A	150A	180A	200A
Max AC Charging Current	80A	100A	80A	100A	120A	140A
Max Charging Current	120A	150A	120A	150A	180A	200A
Grid-Connected Operation (Grid-Connected Output (AC))						
Rated Output Power	3300W	4300W	6300W	8300W	10.3KW	12.3KW
Rated Output Voltage	220Vac / 230Vac / 240Vac					
Grid Voltage Range	187Vac ~ 264Vac					
Rated Output Frequency	50Hz / 60Hz					
Frequency Range	47Hz~52Hz(50Hz),57Hz~62Hz(60Hz)					
Rated Output Current	14.5A/13.9A/13.3A	19.5A/18.7A/17.9A	28.6A/27.4A/26.2A	37.7A/36.1A/34.6A	46.7A/44.9A/42.9A	55.9A/53.5A/51.3A
Power Factor	> 0.98(Rated Power)					
Off-Grid Operation (AC Input)						
Rated Input voltage	220V / 230V / 240V					
Mains input voltage range	165Vac~280Vac / 120Vac~280Vac (Can be set)					
Rated Input Frequency	50Hz / 60Hz					
Input Frequency Range	45Hz~55Hz(50Hz),55Hz~65Hz(60Hz)					
AC Output						
Rated Output Power	3300W	4300W	6300W	8300W	10.3KW	12.3KW
Rated Output Voltage	220V / 230V / 240V					
Output Voltage Accuracy	±2%					
Rated Input Frequency	50Hz / 60Hz					
Output Frequency Accuracy	±1%					
Output Wave	Pure Sine Wave					
Mixed Operation (Complementary Mode (AC Input))						
Rated Input voltage	220V / 230V / 240V					
Mains input voltage range	187Vac~264Vac					
Rated Input Frequency	50Hz / 60Hz					
Input Frequency Range	47Hz~52Hz(50Hz),57Hz~62Hz(60Hz)					
AC Output						
Rated Output Power	3300W	4300W	6300W	8300W	10.3KW	12.3KW
Rated Voltage Rated	220Vac / 230Vac / 240Vac					
Output Current	14.5A/13.9A/13.3A	19.5A/18.7A/17.9A	28.6A/27.4A/26.2A	37.7A/36.1A/34.6A	46.7A/44.9A/42.9A	55.9A/53.5A/51.3A
General parameters						
Maximum Conversion Efficiency(Battery Discharge)	94%(peak value)					
MPPT Tracking Efficiency	≥99.9					
Transfer Time	10ms(Typical value)					
Display	LCD+LED					
Cooling Method	Cooling fan in intelligent control					
Communication	RS485/Mobile APP(WIFI Monitoring or GPRS monitoring)(Optional)					
Protection Degree	IP20					
Installation	Wall-Mounted					
Protect						
Battery low voltage alarm	22Vdc (default value)			44Vdc (default value)		
Battery low voltage protection	21Vdc (default value)			42Vdc (default value)		
Anti-islanding protection	≤2S					
Overload power protection	Automatic Protection (battery mode),Circuit Breaker or Insurance (AC mode)					
Output short circuit protection	Automatic Protection (battery mode),Circuit Breaker or Insurance (AC mode)					
Temperature protection	> 90°C (turn off inverter and charging)					
Environment						
Operating temperature	-10C~50°C					
Storage temperature	-15C~60°C					
Nois	≤55dB					
Elevation	2000m (More than derating)					
Humidity	0%~95% ,No condensation					
Dimensions And Weight						
Product Size(L*W*Hmm)	325*275*102	365*297*102	390*320*112	515*365*117	535*462*117	630*540*130
Package Size(L*W*Hmm)	400*330*167	440*352*167	465*375*187	600*430*192	615*527*192	715*605*205
N.W.(kg)	6	7	8.5	13	15.5	23.5
G.W.(kg)	6.5	7.5	9.5	15	17.5	25.5

Note: 1. Specifications are subject to change without prior notice; 2. Special voltage and power requirements can be customized according to the actual situation of users.